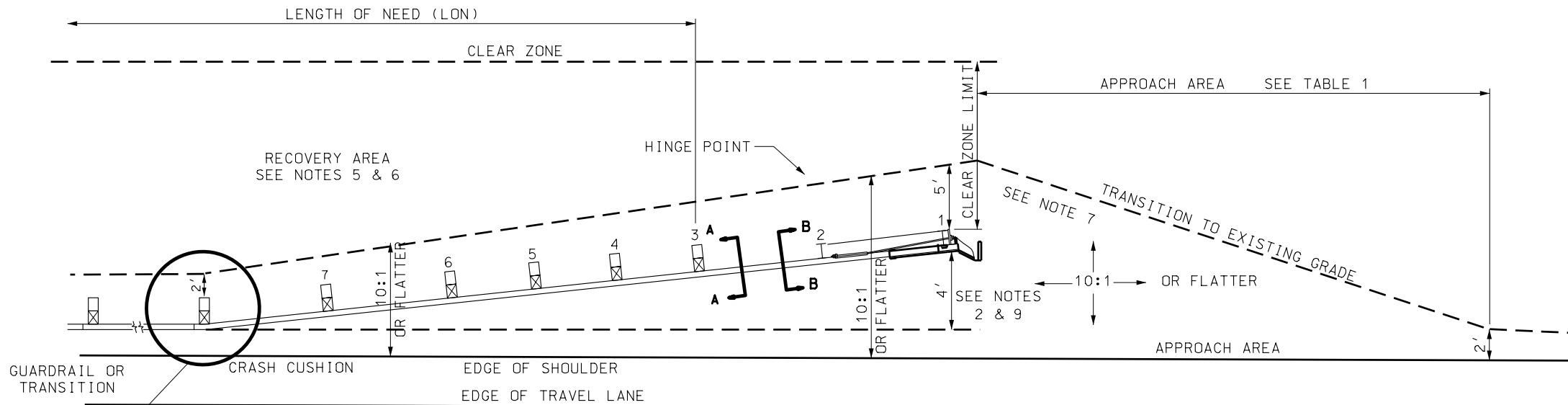
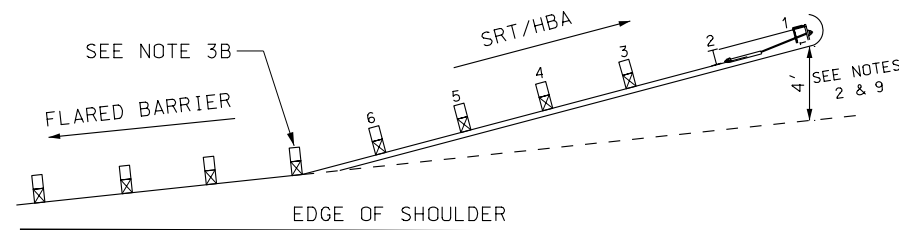
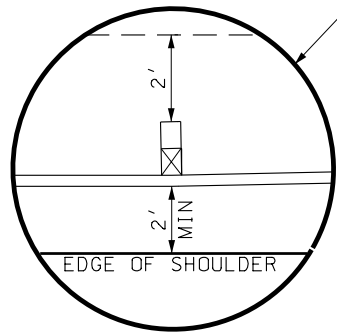


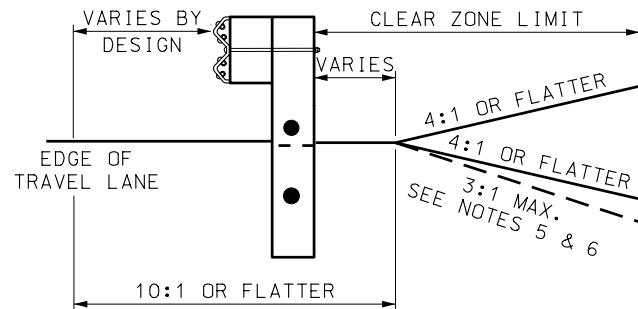
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FLEAT - 350 / SRT/HBA
WOOD/STEEL POST
SEE NOTES 2, 3 & 8

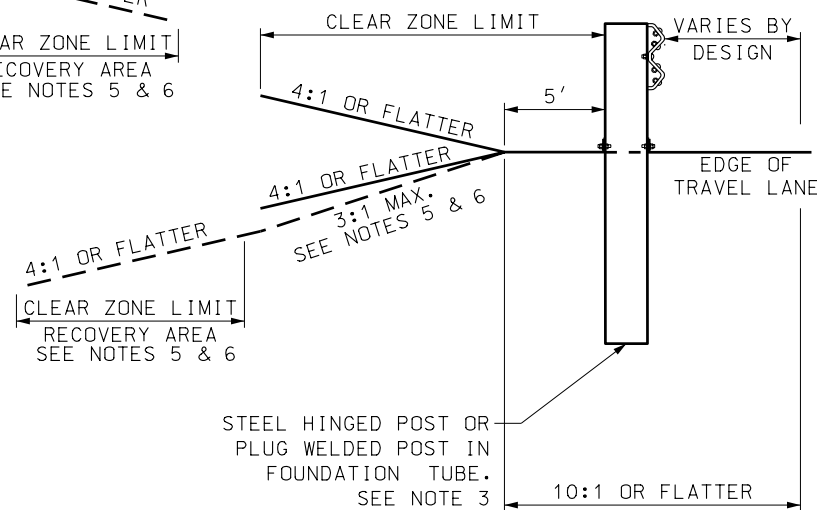


**SRT/HBA
WITH FLARED BARRIER**
SEE NOTE 2 C



TYPICAL SECTION A-A
POSTS 3-8

TABLE 1	
SPEED MPH	TAPER
LESS THAN 40	7:1
40 TO 55	10:1
60 TO 75	15:1



TYPICAL SECTION B-B
POSTS 1-2
SEE NOTE 3

NOTES:

- APPROVED SYSTEMS: FLEAT 350, MANUFACTURED BY ROAD SYSTEMS, INC. AND SRT/HBA MANUFACTURED BY TRINITY INDUSTRIES REFER TO UDOT'S GUIDELINES FOR CRASH CUSHIONS AND END TREATMENTS FOR SPECIFIC SYSTEM DETAILS.
- SYSTEM OFFSET:
 - INSTALL SYSTEM WITH A 4 FOOT OFFSET WHEN USED WITH A TANGENT BARRIER SYSTEM.
 - FLEAT-350: INSTALL AT THE SAME FLARE RATE AS THE BARRIER INSTALLATION.
 - SRT/HBA: INSTALL SYSTEM WITH A 4 FOOT OFFSET, FROM THE FLARED BARRIER EXTENDED.
- POST OPTIONS: REFER TO UDOT'S GUIDELINES FOR CRASH CUSHIONS FOR APPROVED POST OPTIONS.
 - POSTS 1 AND 2
 - FLEAT-350 PLUG WELDED POSTS SET INSIDE 6' FOUNDATION TUBES.
 - SRT/HBA HINGE BREAKAWAY POSTS.
 - SRT/HBA: THE LAST POST OF THE GUARDRAIL INSTALLATION OR THE GUARDRAIL TRANSITION ELEMENT (POST #11) WILL BE SUBSTITUTED WITH A CRT POST AS PER MANUFACTURER'S REQUIREMENTS.
- USE 12 1/2 FOOT RAIL SECTIONS (3 EACH SECTIONS), SLOTTED AS PER MANUFACTURER'S REQUIREMENTS.
- COMPLETE SLOPE PREPARATION PRIOR TO INSTALLING SYSTEM.
 - USE 10:1 OR FLATTER SLOPES IN APPROACH AREA.
 - USE 4:1 OR FLATTER FORESLOPE OR BACKSLOPE IN THE RECOVERY AREA.
 - IF A 4:1 FORESLOPE IN RECOVERY AREA IS IMPRACTICAL USE A MAXIMUM 3:1 FORESLOPE. ESTABLISH A RECOVERY AREA AT THE TOE OF THE 3:1 FORESLOPE OF 4:1 OR FLATTER.
 - USE A 4:1 BACKSLOPE TO THE CLEAR ZONE LIMIT IN THE RECOVERY AREA IF A 4:1 CANNOT BE ESTABLISHED A 3:1 IS PERMITTED.
- CLEAR RECOVERY AND APPROACH AREAS OF ANY FIXED OBJECTS.
 - DO NOT PLACE SIGNS OR POLES IN APPROACH AREA.
 - USE BREAKAWAY SIGNS OR POLES WHEN PLACED IN RECOVERY AREA, AND MAINTAIN A MINIMUM 10 FOOT CLEARANCE TO THE SIDES AND REAR OF SYSTEM.
- CONSTRUCT PLATFORM AS REQUIRED EVEN IF THE PLATFORM EXTENDS BEYOND THE CLEAR ZONE REQUIREMENTS.
- USE GUARDRAIL TRANSITION, STD DWG BA 4 SERIES, WHEN ATTACHING THE SYSTEM TO CONCRETE BARRIER OR BRIDGE PARAPET.
 - SRT/HBA: REPLACE THE LAST POST OF THE TRANSITION WITH A CRT POST. SEE NOTE 3.
- INSTALL REQUIRED MARKINGS AS PER STD DWG CC 1.
- USE THE CURRENT ROADSIDE DESIGN GUIDE TO ESTABLISH CLEAR ZONE REQUIREMENT AND LENGTH OF NEED (LON) REQUIREMENTS.

REVISIONS				NO.	DATE	APPR.	REMARKS
1	02/24/05	GS	MODIFIED RECOVERY AREA REQUIREMENTS, REVISED NOTES AND TABLE 1, ADDED SRT/HBA FLARED BARRIER DETAIL.				
2	04/28/05	GS	REISSUED TO CORRECT OVERSIGHT.				
3	11/30/06	GS	REVISED TO REFLECT STEEL POST REQUIREMENTS.				
UTAH DEPARTMENT OF TRANSPORTATION							
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION							
RECOMMENDED FOR APPROVAL							
CHAIRMAN STANDARDS COMMITTEE							
APPROVED							
DEPUTY DIRECTOR							
GRADING AND INSTALLATION DETAILS							
CRASH CUSHION TYPE H							
STD DWG							
CC 9A							